

# Assessment - Factoring Differences and Sums of Cubes

For this online assessment, copy the problems onto a sheet of paper and work them out by hand. Submit your written work in class after you use it to complete this online assessment.

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\* Required

Last Name \*

First Name \*

## 1. Please fully factor the following expression

Do not use capitals or spaces in your answer. Do not use the asterisk for multiplication. Use the ^ for expressions containing exponents. An acceptable form would be something like  $-3(x-4+2x^2)$ .

$$x^3 + y^3$$

## 2. Please fully factor the following expression

Do not use capitals or spaces in your answer. Do not use the asterisk for multiplication. Use the ^ for expressions containing exponents. An acceptable form would be something like  $-3(x-4+2x^2)$ .

$$8x^6 - y^9$$

## 3. Please fully factor the following expression

Do not use capitals or spaces in your answer. Do not use the asterisk for multiplication. Use the ^ for expressions containing exponents. An acceptable form would be something like  $-3(x-4+2x^2)$ .

$$125d^3 - 64$$

**4. Please fully factor the following expression**

Do not use capitals or spaces in your answer. Do not use the asterisk for multiplication. Use the ^ for expressions containing exponents. An acceptable form would be something like -3(x-4+2x^2) .

$$a^{12} + 27b^{18}$$

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